

# INTERNATIONAL SEARCH REPORT

International Application No

/GB2004/001681

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F16D1/08 F16C35/02 F16C35/073 F16C35/077

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16D F16C G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | PATENT ABSTRACTS OF JAPAN<br>vol. 0090, no. 22 (M-354),<br>30 January 1985 (1985-01-30)<br>-& JP 59 166711 A (TAIHOU KOGYO KK;<br>others: 01),<br>20 September 1984 (1984-09-20) | 1-4                   |
| A          | abstract; figures 3-5  |                       |
| X          | US 4 981 390 A (CRAMER JR ARTHUR A ET AL)<br>1 January 1991 (1991-01-01)<br>column 2, lines 27-35<br>column 4, line 60 - column 5, line 9;<br>figure 7                           | 1-7                   |
| A          | EP 0 554 144 A (NADELLA)<br>4 August 1993 (1993-08-04)<br>column 4, line 46 - column 5, line 12;<br>figure 3a  | 1-4,6                 |
|            | -/-  |                       |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

16 July 2004

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/GB2004/001681

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages                           | Relevant to claim No. |
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| A          | DE 32 48 148 A (DAIMLER BENZ AG ;<br>WITZENMANN METALLSCHLAUCHFAB (DE))<br>5 July 1984 (1984-07-05)<br>----- |                       |
| A          | US 6 333 839 B1 (JONES INMAN L ET AL)<br>25 December 2001 (2001-12-25)<br>-----                              |                       |
| A          | US 6 480 363 B1 (PRATER WALTER L)<br>12 November 2002 (2002-11-12)<br>-----                                  |                       |
| A          | US 3 633 398 A (KOCH HANS W)<br>11 January 1972 (1972-01-11)<br>-----  |                       |

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| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s)   | Publication<br>date  |
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